



**CITY OF DULUTH**  
PURCHASING DIVISION  
Room 100 City Hall  
411 West First Street  
Duluth, Minnesota 55802-1199  
218/730-5340 218/730-5922 FAX  
[purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov)

**Addendum # 3**  
**File # 16-01AA**  
**Fire Rescue Vehicle**

This addendum serves to notify all bidders of additional questions and responses, including those submitted during the pre-bid teleconference held on January 9<sup>th</sup>. Q & A is attached.

PLEASE NOTE THAT THE DEADLINE FOR SUBMITTING BIDS HAS BEEN EXTENDED TO THURSDAY, FEBRUARY 4, 2016 AT 2:00 PM CST.

Please acknowledge receipt of this Addendum by signing, dating, and submitting a copy of this page with your bid/proposal. Thank you.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Posted January 11, 2016

General Question:

Can the bid opening date be extended to a minimum of 4 weeks after the release of all addenda for questions and answers to allow for time to ensure the product being bid is engineered properly?

The bid opening will be extended to Thursday, February 4, 2016.

#### 19.0 DELIVERY/CONSTRUCTION

The spec calls for no more than 300 days of construction time, but does not state when that clock begins. Would 300 days after a pre-construction conference and approval of changes be acceptable?

300 working days begins when contract is awarded.

#### 20.0 DELIVERY ENGINEER

Being that the unit specified has no pumping system or aerial device, would training from the dealer rather than a factory engineer be acceptable?

Yes.

#### 21.0 APPARATUS SIZE - CAPACITY – SEATING

Changed to state that the highest point of the apparatus shall not exceed 132 inches.

#### 22.1 ENGINE

Please delete the wiring harness reference to the pump panel.

Spec calls for a 100" wide body but then states that total OAW cannot exceed 101". This does not allow for the width of warning lights, marker lights, rubrails, etc. With proper rubrail installation to protect warning lights, handrails, etc the OAW would be just over 104" (which is within the DOT requirements for non-breakaway items mounted to a vehicle) is this acceptable?

Yes.

##### 22.1.1 ENGINE PROGRAMMING ROAD SPEED GOVERNOR

What is a GVG Fire & Emergency Service Vehicle Engine Warning System? Would other models/manufacturers be acceptable?

Yes.

#### 23.0 TRANSMISSION

A 6 speed model is preferred, but a 5 speed would be considered.

Sections calls for a touch screen control for the transmission, would a standard Allison push-button control pad be acceptable? Yes.

#### 24.0 INDEPENDENT FRONT SUSPENSION AND EQUIPMENT

The independent front suspension system must be an air ride system for this unit, correct?

Yes.

#### 25.0 REAR AXLE, SUSPENSION AND EQUIPMENT

Brakes shall be largest possible and size shall be discussed with Duluth Fire Department and Fleet Services to insure proper braking on city hills.

#### 28.0 FRAME AND WHEELBASE

Changed to state that the chassis wheelbase shall be approximately 210 inches.

#### 29.0 BUMPER/TOW HOOKS

Would other brands of reels be acceptable? Please clarify the total number of reels required and what you would like on each individual reel.

Must comply with Section 29. Please note that all reels and hoses will need to be furnished by the bidder.

Is the intention of the center tray in the front bumper to hold hydraulic rescue tools?

Yes.

NFPA requires us to rate the tow hooks at a 2:1 and assume they will both be used at the same time. This means rating for a 48,000 lb load on the front bumper extension, which may be problematic. Would a 9,000 lb rating be acceptable?

The receiver hitch and tow eyes shall be rated no lower than 10,000 pounds.

Section specifies a 12,000 lb rating on the front bumper receiver hitch and then later says that a 9,000 lb portable winch will be on the truck. Do you require the adapters needed in order to utilize the winch in the receiver? Would a more standard 9,000 lb receiver hitch be acceptable?

No.

Bumper reels shall be Two (2) Custom Machine Works Model 6011 dual reel. Reels shall consist of air hose/hydraulic passenger side, electric/hydraulic driver side. All reels shall be capable of 100 feet of specified hose/cord. Location shall be outside of frame rails on both sides.

Hydraulic hoses to be two (2) 100 foot Genesis brand twin line 10,500 PSI with OSC female couplings.

Airline to be 3/8" Heavy Duty air line with length determined by reel capacity. End to be Paratech # 22-890711.

Working air pressure shall be approximately 120 PSI continuous with regulator control to be in bumper.

Electric cord to be #10-3 heavy duty cord with length determined by capacity of reel. End shall be single heavy duty twist-lock connector to match current Duluth Fire cords.

#### 33.0 CAB INTERIOR AND SEATING

Equivalent products to the Black Duracoat Vinyl will be considered. The main concern is to have a covering that is durable, waterproof/resistant, and easy to clean/disinfect.

#### 35.8 SOLDERED AND HEAT SHRINK PROTECTED EMERGENCY FIXTURE WIRING

Section states that all warning lights must be hard soldered into vehicle wiring. All warning light manufactures provide lights with weather sealed Deutsch connections on them, is this acceptable?

Yes.

#### 35.9 CAB FRONT/GRILLE WARNING LIGHTS

Please note that there are only two lights on the grille, the remainder are on the cab body.

#### 35.10 ROTO-RAY WARNING LIGHT

Lights should be LED.

#### 35.15 LIGHTBAR

The Opticom Emitter should be infrared.

#### 35.22 800 MHz RADIO, ANTENNA & CABLE AND

#### 35.23 MOBILE DATA COMPUTER MOUNT

Much of the equipment listed is obsolete and no longer available, will the fire department be supplying the antenna, radio, GPS, and computer mounts, and we are simply required to install them?

Yes.

#### 35.25 INTERIOR COMPARTMENTS

Is the intent to mount the refrigerator inside one of the cabinets specified? If not, where is it intended to be located as the cab will be completely full from the seating and cabinet requirements?

Yes, inside cab.

Cab compartment layout should maximize use of space and allow for easy access to equipment. It shall be floor to ceiling behind front seats and on the back cab wall by crew seats. Refrigerator shall be located on passenger side behind officer's seat. All layouts will be considered and discussed with final layout decision to be made at preconstruction meeting.

#### 37.0 APPARATUS BODY AND COMPARTMENTATION:

Compartmentation measurements provided are approximate. We understand that these numbers may vary slightly depending on the wheelbase and construction method of the proposed vehicle.

#### 37.1 18 FOOT APPARATUS BODY CONFIGURATION

Confirming that you do want a 20" raised roof and the body of the vehicle should come up to the top of the raised roof? This will exceed the previously specified OAH requirement of 120".

See addendum 2.

37.2 DRIVER'S SIDE COMPARTMENTATION AND  
37.3 PASSENGER'S SIDE COMPARTMENTATION

Would the D3 & P3 compartments also being transverse be acceptable?

Yes.

37.4 COMPARTMENT SHELVING

The tip downs and slide outs can be half-depth. Emphasize that the exact dimensions, location, layout, and other details will be finalized during preconstruction.

Although On Scene Solutions is preferred, other equivalent options will be considered.

Bid shall include price of brackets and mounting of all equipment listed. Budget figure shall not be provided by Fire Department as it may affect final bid price by additional funds being required to complete after bid award.

Please give us a better idea of where you would like each of the specified shelves and trays to be located in the compartments. Do you have a list of what compartments you want each of the specified equipment items to be located?

Refer to specific language. Details to be determined.

There is a discrepancy in the requested thickness of the material used to make required shelving. Please clarify material requirements, or are you willing to accept material outside the specified numbers as long as the shelving meets the weight rating requirements of the spec?

Should all be ¼".

37.5 DEEP SLIDE OUT COMPARTMENT SHELVING

This shelving shall be bolted to the floor of the compartment and be limited in depth by the back wall of compartment.

37.8 FIRE EXTINGUISHER MOUNTING:

In which compartment do you intend the fire extinguishers to be mounted?

TBD at pre-construction.

37.9 PAC TRAC EQUIPMENT PANELING

PAC TRAC mounting boards shall be provided for both sides of the 6 vertical tools boards mentioned in section 37.4.

37.10 SCBA BOTTLE RACK

In which compartment do you intend the SCBA bottle storage to be located?

TBD.

Please note that we are now using Scott 4500 45 minute SCBA cylinders. We hope to receive bids that identify different ways to store these bottles in one location.

#### 37.11 COMPARTMENT DOORS AND DOOR ACCESSORIES:

Section asks for "Rear-Roll" doors to be used. This will limit your use of the total height of the compartments. Would standard roll-up door mounting at the outside wall of each compartment be acceptable?

No.

The bundles on the roll up doors must be encapsulated. They can operate similar to a garage door. The bundle should be to the rear of the compartment, not at the front edge.

#### 38.2 RECESSED WALKWAY

Prefer that the ladder is at the center of the unit. But will look at options of ladder to passenger side on rear to address possible interference with rear mounted fixed winch and arrow stick.

#### 38.3 SLIDE-IN STORAGE FOR LADDERS, SURFBOARD AND

#### 38.4 RECESSED AREA

Required slide-in ladder storage will interfere with the requested dunnage area at the forward end of the top of the body and will not allow enough room to mount all of the requested equipment in the dunnage area. The generator and hydraulic rescue tool pump would fit but the light tower will not. The light tower could be moved to the roof of the cab ahead of the raised roof, but you have a requirement for a roof mounted AC condenser. Would it be acceptable to go with a different AC condenser mounting location and move the light tower to the cab roof, or can we shorten the ladders to be carried so that the storage depth does not interfere with the required dunnage area?

No. Not acceptable.

Storage for the ladders and surfboard should be inside drivers side hatch compartments unit with access from the rear, although other options that allow for protected storage and easy top access for removal and replacement of the items will be considered.

From walkway to outside of body configuration should be 24' extension ladder, then 14' roof, then surf board (8"x 22"x 127").

#### 40.0 APPARATUS BODY CONSTRUCTION MATERIALS:

There is a discrepancy in the requested thickness of the material used to make required shelving. Please clarify material requirements, or are you willing to accept material outside the specified numbers as long as the shelving meets the weight rating requirements of the spec?

Should all be ¼".

#### 41.4 POLISHED DRIP CAP

Painted treadplate is acceptable.

#### 41.12 ROPE RESCUE ANCHORS/RECEIVER HITCH

The spec calls for a one receiver hitch in the middle between the front and rear wheels and two tow-eyes – each eye located one in front and one behind the rear wheel in the wheel well on both drivers and passengers side. Receiver hitches in place of the tow eyes will be considered.

Tow eyes and receiver hitch must have a weight rating of no less than 10,000 pounds.

#### 41.13 REAR TOW EYES/ RECEIVER HITCH

Section specifies a 12,000 lb rating for the receiver for winch operations, but the portable winch is a 9,000 lb unit. Same questions as front hitch, do you require adapters, or would a more standard 9,000 lb hitch be acceptable since there is also a requirement for a fixed 20,000 lb winch to be mounted on the rear?

No. Tow eyes and receiver hitch must have a weight rating of no less than 10,000 pounds.

#### 41.14 REAR FIXED WINCH

The winch must be protected from the elements in easily removable compartment for repair access.

#### 41.15 ROLL-OUT AWNING STREETSIDE

The awning length of 22 feet is incorrect – it should match the length of the unit body. And it needs to be in a recessed mount – not surface.

One (1) Girard G-2000 Automatic Retractable Lateral Arm Awning shall be recessed mounted into the body on the passenger side. The cassette housing is made of corrosion-resistant, powder-coated extruded aluminum with components made of stainless steel. The housing box to be powder coated to match the upper body color. The unit shall measure approximately sixteen (16) feet (wide), by 5-1/4" (deep), by 7-3/8" (high). The awning shall project outward nine (9) feet nine (9) inches and will be mounted slightly lower in the rear to add in drainage. The G-2000 will deploy and retract using a 110V AC motor with manual override (to retract awning in the event of a power failure) the power controls shall be located in compartment P-1 for the passenger side awning. The awning shall have a system to detect canopy motion. The awning shall automatically retract when the canopy reaches a certain level of movement. The G-2000 has a Limited Lifetime Warranty. – The awning fabric color shall be CHARCOAL GRAY. The outer edge of the awning housing shall have flashing warning lights to advise caution that it is deployed away from the side of the apparatus when approaching. **AWNING HOUSING COLOR** The awnings standard Polar White vinyl housing color shall be re-painted to match upper body color.

#### 42.2 ROOF LADDER

The ladder should be a 14 foot instead of 16 foot.

#### 44.2 TAIL LIGHTING

Requested tail lighting package is obsolete. Will a Whelen or Federal Signal LED package in a grouped housing be acceptable?

Yes.

The two additional scene lights can be activated by a separate switch – do not need to be automatically activated when the unit is put in reverse.

#### 45.0 APPARATUS BODY OPTICAL WARNING DEVICES

The requested warning light package does not meet the requirements of NFPA 1901 and some of the lights listed are obsolete. May we substitute a standard NFPA LED warning light package?

Yes – with proper explanation. See Carmine for details.

#### 46.7 RECEPTACLE BOXES

Section asks for a receptacle bx bracket to be mounted on the pump panel, but this vehicle has no pump panel. Will mounting this inside the compartment immediately below the cord reel be acceptable?

Yes.

#### 46.8 FLOODLIGHTS

Model number should be OPA200-S75.